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ophthalmopathy and Smith-Terry-\$.in.

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USPT,PGPB	ophthalmopathy and Smith-Terry-\$.in.	0	<u>L12</u>
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USPT,PGPB	(antibody or immunoglobulin) and Graves adj5 ophthalmopathy	100	<u>L10</u>
USPT,PGPB	(antibody or immunoglobulin) and ophthalmopathy	134	<u>L9</u>
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USPT,PGPB	thyroid adj5 ophthalmopathy	5	<u>L7</u>
USPT,PGPB	TAO	2857	<u>L6</u>
USPT,PGPB	TAO or (thyroid adj5 ophthalmopathy)	2861	<u>L5</u>
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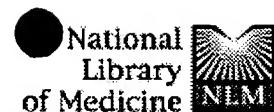
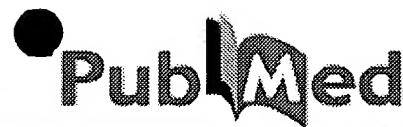
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PubMed Services	#15 Search Lim KG		14:04:16	<u>16</u>
	#13 Search Bell A and Smith TJ		14:00:07	<u>2</u>
	#11 Link to PubMed from (10395224)		13:55:08	<u>723</u>
	#10 Link to PubMed from (4268457)		13:53:58	<u>130</u>
	#9 Search TSI and fibroblast		13:48:03	<u>3</u>
	#6 Search TSI and thyroid		13:47:38	<u>929</u>
	#5 Search TSI		13:42:42	<u>1102</u>

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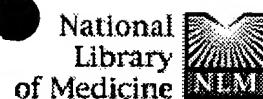
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- 1: [Khoo DH, Ho SC, Seah LL, Fong KS, Tai ES, Chee SP, Eng PH, Aw SE, Fok AC.](#) R
The combination of absent thyroid peroxidase antibodies and high thyroid-stimulating immunoglobulin levels in Graves' disease identifies a group at markedly increased risk of ophthalmopathy.
Thyroid. 1999 Dec;9(12):1175-80.
PMID: 10646655 [PubMed - indexed for MEDLINE]
- 2: [Chazenbalk GD, Pichurin P, McLachlan SM, Rapoport B.](#) R
A direct binding assay for thyrotropin receptor autoantibodies.
Thyroid. 1999 Nov;9(11):1057-61.
PMID: 10595452 [PubMed - indexed for MEDLINE]
- 3: [Ochi Y, Inui T, Kouki T, Yamashiro K, Hachiya T, Kajita Y.](#) R
Thyroid stimulating immunoglobulin (TSI) in Graves' disease.
Endocr J. 1998 Dec;45(6):701-8. Review. No abstract available.
PMID: 10395224 [PubMed - indexed for MEDLINE]
- 4: [Gupta MK.](#) R
Thyrotropin receptor antibodies: advances and importance of detection techniques in thyroid diseases.
Clin Biochem. 1992 Jun;25(3):193-9. Review.
PMID: 1633635 [PubMed - indexed for MEDLINE]
- 5: [Sisson JC, Kothary P, Kirchick H.](#) R
The effects of lymphocytes, sera, and long-acting thyroid stimulator from patients with Graves' disease on retrobulbar fibroblasts.
J Clin Endocrinol Metab. 1973 Jul;37(1):17-24. No abstract available.
PMID: 4268457 [PubMed - indexed for MEDLINE]
- 6: [Nagy EV, Kalman K, Szabo J, Bako G, Gergely L, Leovey A.](#) R
Sera but not immunoglobulins of ophthalmic Graves' patients stimulate human embryonal biosynthetic activity in culture.
Immunobiology. 1991 Aug;182(5):405-13.
PMID: 1916883 [PubMed - indexed for MEDLINE]

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	#6	Search Smith TJ and fibroblast	07:45:18	<u>49</u>
	#5	Search Smith TJ	07:42:58	<u>526</u>
	#4	Search sciaky d	07:41:40	<u>20</u>
	#3	Search TAO and fibroblast	07:41:17	<u>16</u>
	#1	Search TAO	07:38:35	<u>1804</u>

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PubMed Services

1: [Yamada M, Li AW, Wall JR.](#)

R

Thyroid-associated ophthalmopathy: clinical features, pathogenesis, and management.
Crit Rev Clin Lab Sci. 2000 Dec;37(6):523-49. Review.
PMID: 11192331 [PubMed - indexed for MEDLINE]

2: [Pappa A, Lawson JM, Calder V, Fells P, Lightman S.](#)

R

T cells and fibroblasts in affected extraocular muscles in early and late thyroid associate ophthalmopathy.
Br J Ophthalmol. 2000 May;84(5):517-22.
PMID: 10781517 [PubMed - indexed for MEDLINE]

3: [Kaback LA, Smith TJ.](#)

R

Expression of hyaluronan synthase messenger ribonucleic acids and their induction by interleukin-1beta in human orbital fibroblasts: potential insight into the molecular path of thyroid-associated ophthalmopathy.
J Clin Endocrinol Metab. 1999 Nov;84(11):4079-84.
PMID: 10566653 [PubMed - indexed for MEDLINE]

4: [Cao HJ, Wang HS, Zhang Y, Lin HY, Phipps RP, Smith TJ.](#)

R

Activation of human orbital fibroblasts through CD40 engagement results in a dramatic hyaluronan synthesis and prostaglandin endoperoxide H synthase-2 expression. Insight pathogenic mechanisms of thyroid-associated ophthalmopathy.
J Biol Chem. 1998 Nov 6;273(45):29615-25.
PMID: 9792671 [PubMed - indexed for MEDLINE]

5: [Barsouk A, Peele KA, Kiljanski J, Stolarski C, Nebes V, Kennerdell JS, Volpe R, Wall JR.](#)

R

Antibody-dependent cell-mediated cytotoxicity against orbital target cells in thyroid-associated ophthalmopathy and related disorders; close relationship between serum cytotoxic antibody parameters of eye muscle dysfunction.
J Endocrinol Invest. 1996 Jun;19(6):334-41.
PMID: 8844451 [PubMed - indexed for MEDLINE]

6: [Tandon N, Yan SL, Arnold K, Metcalfe RA, Weetman AP.](#)

R

Immunoglobulin class and subclass distribution of eye muscle and fibroblast antibodies with thyroid-associated ophthalmopathy.
Clin Endocrinol (Oxf). 1994 May;40(5):629-39.
PMID: 8013144 [PubMed - indexed for MEDLINE]

7: Sciaky B, Brazer W, Center DM, Cruikshank WW, Smith

R

Cultured human fibroblasts express constitutive IL-16 mRNA: cytokine induction of ac protein synthesis through a caspase-3-dependent mechanism.
J Immunol. 2000 Apr 1;164(7):3806-14.
PMID: 10725741 [PubMed - indexed for MEDLINE]

8: Smith TJ, Parikh SJ.

R

HMC-1 mast cells activate human orbital fibroblasts in coculture: evidence for up-regu prostaglandin E2 and hyaluronan synthesis.
Endocrinology. 1999 Aug;140(8):3518-25.
PMID: 10433207 [PubMed - indexed for MEDLINE]

9: Young DA, Evans CH, Smith TJ.

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Leukoregulin induction of protein expression in human orbital fibroblasts: evidence for site-restricted cytokine-target cell interactions.
Proc Natl Acad Sci U S A. 1998 Jul 21;95(15):8904-9.
PMID: 9671777 [PubMed - indexed for MEDLINE]

10: Sempowski GD, Rozenblit J, Smith TJ, Phipps RP.

R

Human orbital fibroblasts are activated through CD40 to induce proinflammatory cytol production.
Am J Physiol. 1998 Mar;274(3 Pt 1):C707-14.
PMID: 9530102 [PubMed - indexed for MEDLINE]

11: Smith RS, Smith TJ, Blieden TM, Phipps RP.

R

Fibroblasts as sentinel cells. Synthesis of chemokines and regulation of inflammation.
Am J Pathol. 1997 Aug;151(2):317-22. Review.
PMID: 9250144 [PubMed - indexed for MEDLINE]

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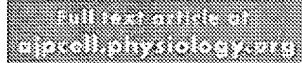
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Functional TSH receptor in human abdominal preadipocytes and orbital fibroblasts.

Bell A, Gagnon A, Grunder L, Parikh SJ, Smith TJ, Sorisky A.

Departments of Medicine and Biochemistry, Microbiology, and Immunology, Loeb Health Research Institute at the Ottawa Hospital, University of Ottawa, Canada.

Controversy continues about whether, and to what levels of abundance, thyroid-stimulating hormone receptors (TSHR) are found in human tissues other than the thyroid gland. Restricted expression to the thyroid and orbit would suggest that TSHR represents the target autoantigen in thyroid-associated ophthalmopathy. A more generalized pattern of tissue expression would be inconsistent with TSHR acting as the autoantigen that is solely responsible for selectively targeting the immune system to the orbit. We have detected TSHR mRNA in human abdominal adipose tissue by Northern blot analysis. TSHR protein was also detected, by immunoblotting with two different antibodies, in preadipocytes isolated from human abdominal subcutaneous and omental adipose tissue and in derivative adipocytes differentiated in primary culture. Preadipocytes treated with thyroid-stimulating hormone (TSH) exhibited a sevenfold increase in the activity of p70 S6 kinase, a serine/threonine kinase recently recognized as a downstream target of TSHR in thyroid cells. Activation of p70 S6 kinase by TSH was also observed in orbital fibroblasts. Thus TSHR protein expression is found in fibroblasts from several anatomic locations, suggesting that factors other than site-limited TSHR expression must be involved in restricting the distribution of Graves' disease manifestations. Furthermore, the presence of functional TSHR in preadipocytes raises the possibility of a novel role for TSHR signaling in adipose tissue development.

PMID: 10912999 [PubMed - indexed for MEDLINE]

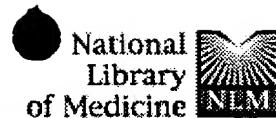
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1: J Immunol 1996 Apr 1;156(7):2566-70

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Human eosinophils elaborate the lymphocyte chemoattractants. IL-16 (lymphocyte chemoattractant factor) and RANTES.

Lim KG, Wan HC, Bozza PT, Resnick MB, Wong DT, Cruikshank WW, Kornfeld H, Center DM, Weller PF.

Department of Medicine, Beth Isreal Hospital, Harvard Medical School, Boston, MA 02215, USA.

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Eosinophils and CD4+ lymphocytes are preferentially recruited into sites of allergic inflammation. A role for eosinophils in the recruitment of CD4+ lymphocytes has not been defined. We studied the capacity of human eosinophils to release chemoattractants for T lymphocytes. Supernatants of cultured eosinophils contained chemoattractant activity for lymphocytes, which was predominantly due to IL-16 (lymphocyte chemoattractant factor) and RANTES. With neutralizing Abs, eosinophil-derived lymphocyte chemotactic activity was diminished by a mean (+/- SEM) of 60 +/- 3% with polygonal anti-IL-16 Ab, 69 +/- 4% with anti-IL-16 mAb, 48 +/- 3% with anti-CD4 F(ab) (IL-16 receptor blockade), 40 +/- 4% with anti-RANTES mAb, and 88 +/- 5% with a combination of anti-IL-16 and anti-RANTES mAbs. IL-16 and RANTES were detectable in eosinophil-derived supernatants by ELISA. Eosinophils constitutively expressed mRNA transcripts for both IL-16 and RANTES detectable by reverse transcription-PCR and contained preformed IL-16 and RANTES demonstrable by ELISA of cell lysates and by immunocytochemistry of freshly isolated eosinophils. Thus, eosinophils are a source of two cytokines, IL-16 and RANTES, that are chemoattractants for lymphocytes as well as eosinophils. These data indicate that eosinophils could contribute cytokines to enhance the recruitment of additional populations of CD4+ lymphocytes and eosinophils.

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